SEQUENCE LISTING

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<110 > RAMSINGH, ARLENE I.
        HALIM, SADIA S.
  <120> COXSACKIEVIRUS B4 EXPRESSION VECTORS AND USES THEREOF
 <130> 0189-2001
 <140> 09/879,572
 <141> 2001-06-12
 <160> 32
 <170> PatentIn Ver. 2.1
 <210> 1
 <211> 16
 <212> PRT
 <213> Unknown Organism
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 <223> Description of Unknown Organism: Peptide of the
       ryanodine receptor (RyR)
 <400> 1
 Arg Ala Glu Asn Glu Lys Asp Ala Thr Thr Glu Lys Asn Lys Lys Arg
                                      10
 <210> 2
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<213> Unknown Organism
<223> Description of Unknown Organism: Chimeric
      ova/virus peptide
<400> 2
Glu Met Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ala
                  5
<210> 3
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<213> Unknown Organism
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<223> Description of Unknown Organism: OVA 323-339
<400> 3
Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
                                                         15
Arg
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<210> 4
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 <213> Coxsackievirus
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 Ile Ser Gln Ala Val His Ala Ala His Ala
                  5
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 Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu
                  5
                                     10
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The Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
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<211> 6
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<213> Coxsackievirus
<400> 8
Val His Ala Ala His Ala
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<213> Human immunodeficiency virus
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<400> 9
Ile Ala Gly Thr Thr Ser Thr Leu Gln
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<210> 10
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<213> Human immunodeficiency virus
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Ser Ser Ile Leu Asp Ile Arg Gln Gly
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<211> 10
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<213> Human immunodeficiency virus
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Asn Glu Glu Ala Ala Glu Trp Asp Arg Leu
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                  5
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<210> 12
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<213> Human immunodeficiency virus
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Ile Ala Gly Thr Thr Ser Thr Leu Gln
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<213> Human immunodeficiency virus
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Ser Ser Ile Leu Asp Ile Arg Gln Gly
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<213> Human immunodeficiency virus
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Asn Glu Glu Ala Ala Glu Trp Asp Arg Leu
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<211> 42
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<213> Coxsackievirus
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<221> CDS
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Gln Glu Met Ser Thr Ala Thr Asn Ser Asp Val Pro Val Gln
<210> 16
<211> 14
<212> PRT
<213> Coxsackievirus
Gln Glu Met Ser Thr Ala Thr Asn Ser Asp Val Pro Val Gln
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<210> 17
<211> 42
<212> DNA
<213> Artificial Sequence
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      DNA vector
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<221> CDS
<222> (1)..(42)
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cag gcc ttg tcc acc gcc act aac tca gag gcg cca gtg cag
                                                                   42
Gln Ala Leu Ser Thr Ala Thr Asn Ser Glu Ala Pro Val Gln
                                     10
 1
                  5
<210> 18
<211> 14
<212> PRT
<213> Artificial Sequence
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<400> 18
Gln Ala Leu Ser Thr Ala Thr Asn Ser Glu Ala Pro Val Gln
<210> 19
<211> 54
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<212> DNA
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 <221> CDS
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 Gln Glu Met Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ala Pro
                   5
 gtg cag
                                                                     54
 Val Gln
 <210> 20
 <211> 18
 <212> PRT
 <213> Coxsackievirus
 <400> 20
 Gln Glu Met Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ala Pro
                  5
Val Gln
<210> 21
<211> 19
<212> PRT
<213> Coxsackievirus
Glu Met Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ala Pro Val
                  5
                                      10
Gln Thr His
<210> 22
<211> 33
<212> DNA
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Synthetic DNA
<220>
<221> CDS
<222> (1)..(33)
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atg acg cgt gct cta ttc caa gga aca cag gtg
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Met Thr Arg Ala Leu Phe Gln Gly Thr Gln Val
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<210> 23
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   1
                   5
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       vector
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<400> 24
atg acg cgt gct cta ttc caa gga gca cag gtg
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Met Thr Arg Ala Leu Phe Gln Gly Ala Gln Val
                                      10
<210> 25
<211> 11
<212> PRT
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<212> DNA
<213> Artificial Sequence
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     coxsackievirus containing HIV
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<400> 26
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       coxsackievirus containing HIV
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 caggagatga tagcaggaac tactagtacc cttcaggagg cgccagtgca g
                                                                    51
 <210> 28
 <211> 51
 <212> DNA
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       coxsackievirus containing HIV
 <400> 28
caggagatga gcagcattct ggacateaga caaggagagg cgccagtgca g
                                                                    51
<210> 29
<211> 239
<212> DNA
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<223> Description of Artificial Sequence: Chimeric
      coxsackievirus containing HIV
<220>
<221> CDS
<222> (10)..(237)
<400> 29
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          Met Thr Arg Gly His Gln Ala Ala Met Gln Met Leu Lys Glu
acc atc aat gag gaa gct gca gaa tgg gat aga gtg cat cca gtg cat
Thr Ile Asn Glu Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His
15
                     20
                                          25
gea ggg cet att gea eea ggc cag atg aga gaa eea agg gga agt gae
Ala Gly Pro Ile Ala Pro Gly Gln Met Arg Glu Pro Arg Gly Ser Asp
                 35
                                     40
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ata gca gga act act agt acc ctt cag gaz caa ata gga tgg atg aca 195 Ile Ala Gly Thr Thr Ser Thr Leu Gln Glu Gln Ile Gly Trp Met Thr 55 aat aat cca acg egt get eta tte caa gga gea cag gtg tea ac 239 Asn Asn Pro Thr Arg Ala Leu Phe Gln Gly Ala Gln Val Ser Thr 70 <210> 30 <211> 77 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence: Chimeric coxeackievirus containing HIV <400> 30 Met Thr Arg Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly 25 Pro Ile Ala Pro Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile Ala Gly Thr Thr Ser Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn Asn 50 Pro Thr Arg Ala Leu Phe Gln Gly Ala Gln Val Ser Thr <210> 31 <211> 158 <212> DNA <213> Artificial Sequence <220> <223> Description of Artificial Sequence: Chimeric coxsackievirus containing HIV <220> <221> CD\$ <222> (10)..(156) <400> 31 tacgataaa atg acg cgr gga cat caa gca gcc atg caa atg tta aaa gag 51 Met Thr Arg Gly His Gln Ala Ala Met Gln Met Leu Lys Glu

acc atc aat gag gaa get gea gaa tgg gat aga gtg cat eea gtg cat

Thr Ile Asn Glu Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His

25

20

99

gca ggg cct att gca cca ggc cag acg cgt gct cta ttc caa gga tca
Ala Gly Pro Ile Ala Pro Gly Gln Thr Arg Ala Leu Phe Gln Gly Ser
35 40 45

cag gtg tca ac Gln Val Ser Thr

158

<210> 32 <211> 50 <212> PRT <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric coxsackievirus containing HIV

<400> 32
Met Thr Arg Gly His Glm Ale Ale

Met Thr Arg Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile 1 5 10 15

Asn Glu Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly
20 25 30

Pro Ile Ala Pro Gly Gln Thr Arg Ala Lou Phe Gln Gly Ser Gln Val

Ser Thr